5020

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/544,284A
Source: PCT
Date Processed by STIC: 6-8-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED | **SUGGESTED CORRECTION** | **SERIAL NUMBER:** 10/544,284A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length — The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino Numbering — The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4____Non-ASCII — The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5____Variable Length — Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7____Skipped Sequences (OLD RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped .

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences (NEW RULES) — Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

10____Invalid <213> Response — Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11____Use of <220> — Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n/Xaa — "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

PCT

RAW SEQUENCE LISTING DATE: 06/08/2006
PATENT APPLICATION: **US/10/544,284A** TIME: 09:53:36

Input Set : **A:\corrected 70235USPCT.ST25.txt**
Output Set: **N:\CRF4\06082006\J544284A.raw**

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 3 <110> APPLICANT: Brown, Devon
 4       Campos, Manuel
 5       Dalmia, Bipin
 6       Demarest, Stephen
 7       Hansen, Genevieve
 8       Heifetz, Peter B.
10 <120> TITLE OF INVENTION: Expression in plants of antibodies against enterotoxigenic
11       Escherichia coli
13 <130> FILE REFERENCE: 70235USPCT
15 <140> CURRENT APPLICATION NUMBER: 10/544,284A
16 <141> CURRENT FILING DATE: 2005-08-02
18 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/001427
19 <151> PRIOR FILING DATE: 2004-02-16
21 <150> PRIOR APPLICATION NUMBER: US 60/448,429
22 <151> PRIOR FILING DATE: 2003-02-18
24 <160> NUMBER OF SEQ ID NOS: 80
26 <170> SOFTWARE: PatentIn version 3.3
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 399
30 <212> TYPE: DNA
31 <213> ORGANISM: artificial sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: codon optimised
36 <400> SEQUENCE: 1
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39 aagctctcct gcgccgcctc cggcttcacc ttctccgact acttcatgtc ctggattcgc   120
41 cagaccccgg agaagcgcct ggagtgggtc gccaccatca acaacggcgg ctcccacacc   180
43 tactgctccg acaacgtgaa gggccgcttc accaccttcc gcgacaacgt gaagaacacc   240
45 ctctacctcc agatgtcctc cctcaacttc gaggacaccg ccatgtacta ctgcgcccgc   300
47 gcctactacc gcttcgacgt gcgcgcctgg ttctcctact ggggccaggg caccctcgtg   360
49 accgtgtcca cggccaagac caccccgccg tccgtctac                         399
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53 <211> LENGTH: 582
54 <212> TYPE: DNA
55 <213> ORGANISM: artificial sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: codon optimised
60 <400> SEQUENCE: 2
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65 accgacggct ccccgcgcct cctcatccag tgcgcctccg agtccatctc cggcatcccg   180
67 tcccgcttct ccggcaccgg ctccggcacc gacttcaccc tcaacttcaa ctccgtggag   240
69 tccgagtaca tcaccgacta ctactgccag cagtccaaca cctggccgac ctacccgttc   300
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Does Not Comply
Corrected Diskette Needed
CPg. 1

Invalid Response

Invalid Response

See item #11 on error Summary Sheet.

RAW SEQUENCE LISTING DATE: 06/08/2006
PATENT APPLICATION: **US/10/544,284A** TIME: 09:53:36

Input Set : **A:\corrected 70235USPCT.ST25.txt**
Output Set: **N:\CRF4\06082006\J544284A.raw**

71 ggcggcggca ccaagctcga gatcaagcgc gccgacgccg ccccgaccgt gtccatcttc 360
73 ccgccgtcct ccgagcagct cacctccggc ggcgcgtccg tggtgtgctt cctcaacaac 420
75 ttctacccga aggacatcaa cgtgaagtgg aagatcgacg gctccgagcg ccagaacggc 480
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79 ctcaccctca ccaaggacga gtacgagcgc cacaactcct ac 582
82 <210> SEQ ID NO: 3
83 <211> LENGTH: 399
84 <212> TYPE: DNA
85 <213> ORGANISM: mouse
87 <400> SEQUENCE: 3
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90 aaactctcct gtgcagcctc tggattcact ttcagtgact atttcatgtc ttggattcgc 120
92 cagactccgg aaaagaggct ggagtgggtc gcaaccatta ataatggtgg tagtcacacc 180
94 tactgttcag acaatgtgaa gggacgattt acaactttca gagacaatgt caaaaacacc 240
96 ctgtaccttc aaatgagcag tctgaacttt gaggacacag ccatgtatta ctgtgcaaga 300
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103 <210> SEQ ID NO: 4
104 <211> LENGTH: 330
105 <212> TYPE: DNA
106 <213> ORGANISM: mouse
108 <400> SEQUENCE: 4
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111 gtcagtttct cctgcagggc cagtcagatc attggcacaa ccatacactg gtctcagcaa 120
113 agaacagatg gttctcctag gcttctcata cagtgtgctt ctgagtctat ctctgggatc 180
115 ccttccaggt ttagtggcac tggatcaggg acagatttta ctcttaactt caacagtgtg 240
117 gagtctgaat atattacaga ttattactgt caacaaagta atacctggcc aacgtacccg 300
119 ttcggagggg ggaccaagct cgagataaaa 330
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 396
124 <212> TYPE: DNA
125 <213> ORGANISM: artificial sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: codon optimised
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131 actagtgacg tgcagctcgt ggagtccggc ggcggcctcg tgcagccggg cggctcccgc 60
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135 caggccccag agaagggcct ggagtgggtg gcctacatct cctccggctc catcaccatc 180
137 tactacgccg acaccgtgaa gggccgcttc accgtgtccc gcgacaaccc gaagtccacc 240
139 ctcttcctcc agatgacctc cctccgcagc gaggacaccg ccatgtacta ctgcgcccgc 300
141 gacgactacg gctcctccgg ctggtacttc gacgtctggg gcgctggcac cacggtgacc 360
143 gtgtcctcgg ccaagaccac cccgccgtcc gtctac 396
146 <210> SEQ ID NO: 6
147 <211> LENGTH: 336
148 <212> TYPE: DNA
149 <213> ORGANISM: artificial sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: codon optimised
154 <400> SEQUENCE: 6

Invalid response

Invalid Response

See item #11 on error summary sheet

RAW SEQUENCE LISTING DATE: 06/08/2006
PATENT APPLICATION: **US/10/544,284A** TIME: 09:53:36

Input Set : **A:\corrected 70235USPCT.ST25.txt**
Output Set: **N:\CRF4\06082006\J544284A.raw**

155 actagtgaca tcgtgatgtc ccagtccccg tcctccctcg ccgtgtccgc tggcgagaag 60
157 gtcaccatgt cctgcaagtc ctcccagtcc ctcctcaact cccgcacccg caagaactac 120
159 ctcgcctggt atcagcagaa gccgggccag tccccgaagc tcctcatcta ctgggcctcc 180
161 acccgcgagt ccggcgtgcc ggaccgcttc accggctccg gctccggcac cgacttcacc 240
163 ctcaccatct cctccgtgca ggcggaggac ctcgccgtgt actactgcac ccagtcctac 300
165 aacctcctca ccttcggcgc cggtaccaag ctcgag 336
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169 <211> LENGTH: 393
170 <212> TYPE: DNA
171 <213> ORGANISM: artificial sequence
173 <220> FEATURE:
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176 <400> SEQUENCE: 7
177 actagtgagg tccagctgca gcagtctgga cctgaactag tgaagactgg ggcttcagtg 60
179 aagatatcct gcaaggcttc tgattactca ctcactgatt actacatgca ctgggtcaag 120
181 cagagccatg gagagagcct tgagtggatt ggatatatta atttttacaa tggtgctact 180
183 aactacaacc agaagttcaa gggcaaggcc acatttactg tagacacatc ctccagcaca 240
185 gtctacatgc agttcaacag cctgacatct gaagactctg cggtctatta ttgtgtaaga 300
187 gaagcattac tacggaacta tgctatggac tactggggtc aaggaacctc agtcaccgtc 360
189 tcctcagcca aaacgacacc cccatctgtc tac 393
192 <210> SEQ ID NO: 8
193 <211> LENGTH: 324
194 <212> TYPE: DNA
195 <213> ORGANISM: artificial sequence
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200 <400> SEQUENCE: 8
201 actagtgaaa atgtgctcac ccagtctcca gcaatcatgt ctgcatctcc aggggaaaag 60
203 gtcaccatga cctgcagggc cagctcaagt gtaagttccc gttacttgca ctggtaccag 120
205 cagaagtcag gtgcctcccc caaactctgg atttatagca catccaactt ggcttctgga 180
207 gtccctgctc gcttcagtgg cagtgggtct gggacctctt actctctcac aatcagcagt 240
209 gtggaggctg aagatgctgc cacttattac tgccagcaat acagtggtta cccgtggacg 300
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214 <210> SEQ ID NO: 9
215 <211> LENGTH: 408
216 <212> TYPE: DNA
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219 <220> FEATURE:
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222 <400> SEQUENCE: 9
223 actagtgaag tgaagcttga ggagtctgga ggaggcttgg tgcaacctgg aggatccatg 60
225 agactctcct gtgttgcctc tggattcact ttcagtaact actggatgaa ctgggtccgc 120
227 cagtctccag agaaggggct tgagtgggtt gctgaaatta gattgacatc taataatttt 180
229 gcaacacatt atgcggagtc tgtgaaaggg aggttcacca tctcaagaga tgattccaaa 240
231 agtagtgtct acctgcaaat gaacaactta agagctgaag acactggcat ttattactgt 300
233 accaggcctt actacggtgg taggttcttc tactggtact tcgatgtctg gggcgcaggg 360
235 accacggtca ccgtctcctc aaccaaaacg acacccccat ctgtctac 408
238 <210> SEQ ID NO: 10
239 <211> LENGTH: 324

RAW SEQUENCE LISTING DATE: 06/08/2006
PATENT APPLICATION: **US/10/544,284A** TIME: 09:53:36

Input Set : **A:\corrected 70235USPCT.ST25.txt**
Output Set: **N:\CRF4\06082006\J544284A.raw**

240 <212> TYPE: DNA
241 <213> ORGANISM: artificial sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: anti-K88 codon optimised VL from 7-46 — Invalid Response
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249 atcactatca cctgcagtgc cagctcaagt ataagttcca attacttgca ttggtatcag 120
251 cagaagccag gattctcccc taaactcttg atttatagga catccaatct ggcttctgga 180
253 gtcccagttc gcttcagtgg cagtgggtct gggacctctt actctctcac aattggcacc 240
255 atggaggctg aagatgttgc cacttactac tgccagcagg gtaatagtat accattcacg 300
257 ttcggctcgg ggacaaagct cgag 324
260 <210> SEQ ID NO: 11
261 <211> LENGTH: 363
262 <212> TYPE: DNA
263 <213> ORGANISM: mouse
265 <400> SEQUENCE: 11
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268 tcctgtgcag cctctggatt cactttcagt agctttgcaa tgcactgggt tcgtcaggct 120
270 ccagagaagg ggctggagtg ggtcgcatat attagtagtg gcagtattac catctactat 180
272 gcagacacag tgaagggccg attcaccgtc tccagagaca atcccaagag caccctgttc 240
274 ctgcaaatga ccagtctaag gtctgaggac acggccatgt attactgtgc aagagacgac 300
276 tacggtagta gcgggtggta cttcgatgtc tggggcgcag ggaccacggt caccgtctcc 360
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291 tggtaccagc agaaaccagg gcagtctcct aaactgctga tctactgggc atccactagg 180
293 gaatctgggg tccctgatcg cttcacaggc agtggatctg ggacagattt cacyctcacc 240
295 atcagcagtg tgcaggctga agacctggca gtttattact gcacgcaatc ttataatctg 300
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301 <211> LENGTH: 410
302 <212> TYPE: DNA
303 <213> ORGANISM: mouse
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308 tcctgcaagg cttctgatta ctcactcact gattactaca tgcactgggt caagcagagc 120
310 catggagaga gccttgagtg gattggatat attaattttt acaatggtgc tactaactac 180
312 aaccagaagt tcaagggcaa ggccacattt actgtagaca catcctccag cacagtctac 240
314 atgcagttca acagcctgac atctgaagac tctgcggtct attattgtgt aagagaagca 300
316 ttactacgga actatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360
318 gccaaaacga cacccccatc tgtctatcca ctggccccta ctagtgctgc 410
321 <210> SEQ ID NO: 14
322 <211> LENGTH: 317
323 <212> TYPE: DNA

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING DATE: 06/08/2006
PATENT APPLICATION: US/10/544,284A TIME: 09:53:36

Input Set : A:\corrected 70235USPCT.ST25.txt
Output Set: N:\CRF4\06082006\J544284A.raw

<213> ORGANISM: mouse
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tcaggtgcct cccccaaact ctggatttat agcacatcca acttggcttc tggagtccct 180
gctcgcttca gtggcagtgg gtctgggacc tcttactctc tcacaatcag cagtgtggag 240
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ggaggcacca agctgga 317
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ccagagaagg ggcttgagtg ggttgctgaa attagattga catctaataa ttttgcaaca 180
cattatgcgg agtctgtgaa agggaggttc accatctcaa gagatgattc caaaagtagt 240
gtctacctgc aaatgaacaa cttaagagct gaagacactg gcatttatta ctgtaccagg 300
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gtcaccgtct cctc 374
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ccaggattct cccctaaact cttgatttat aggacatcca atctggcttc tggagtccca 180
gttcgcttca gtggcagtgg gtctgggacc tcttactctc tcacaattgg caccatggag 240
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tcggggacaa agctcgag 318
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<213> ORGANISM: artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: anti-K99 heavy chain variable region OK
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Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
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35 40 45
Glu Trp Val Ala Thr Ile Asn Asn Gly Gly Ser His Thr Tyr Cys Ser
50 55 60
Asp Asn Val Lys Gly Arg Phe Thr Thr Phe Arg Asp Asn Val Lys Asn
65 70 75 80
Thr Leu Tyr Leu Gln Met Ser Ser Leu Asn Phe Glu Asp Thr Ala Met

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/08/2006
PATENT APPLICATION: **US/10/544,284A** TIME: 09:53:37

Input Set : **A:\corrected 70235USPCT.ST25.txt**
Output Set: **N:\CRF4\06082006\J544284A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; Xaa Pos. 225,226
Seq#:80; Xaa Pos. 2

VERIFICATION SUMMARY DATE: 06/08/2006
PATENT APPLICATION: **US/10/544,284A** TIME: 09:53:37

Input Set : **A:\corrected 70235USPCT.ST25.txt**
Output Set: **N:\CRF4\06082006\J544284A.raw**

L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:224
L:1890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0